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Attorney Docket No. 21863

PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: PATRICK A.
COSTELLO

Application No. 10/684,282

Confirmation No. 3340

Filed: October 10, 2003

Group Art Unit: 2664

Examiner: WELLINGTON CHIN

For: SLOW-START PACKET SCHEDULING
PARTICULARLY APPLICABLE TO SYSTEMS
INCLUDING A NON-BLOCKING SWITCHING
FABRIC AND HOMOGENEOUS OR
HETEROGENEOUS LINE CARD
INTERFACES

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this paper is being deposited with the United States Postal Service on the date shown with sufficient postage as first class mail in an envelope addressed to: Commissioner For Patents, PO Box 1450, Alexandria VA 22313-1450, or being facsimile transmitted to the USPTO, 703-872-9306 on March 30, 2005.

A handwritten signature in black ink, appearing to read "Kirk D. Williams, Esq."

3/30/05

INFORMATION DISCLOSURE STATEMENT - A

Commissioner for Patents
Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 are submitted for consideration by the Examiner in the examination of the above-identified patent application. The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form PTO-1449, thereby indicating the Examiner's consideration of each of the references.

A bona fide attempt is made to comply with §§ 1.97-98. The filing of this information disclosure statement should not be construed as a representation that a search has been made, nor is it to be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b). Additionally, the submission of this IDS is for the purpose of providing a complete record and is not a concession that the references are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so. Furthermore, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

In re PATRICK A. COSTELLO
Application No. 10/684,282

The Information Disclosure Statement is being filed:

- Under § 1.97(b): (1) within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); (2) within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; (3) before the mailing of a first Office action on the merits; or (4) before the mailing of a first Office action after the filing of a request for continued examination under § 1.114.
- Under § 1.97(c): after (1), (2), or (3) above (i.e., after paragraph (b)) and before the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application, and is accompanied by:
- the statement specified in 37 C.F.R. § 1.97(e):
 - Each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or
 - That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.
 - the fee set forth in 37 C.F.R. § 1.17(p) (see "Fees" below).
- Under § 1.97(d): after the period specified in § 1.97(c) and before payment of the issue fee, and is accompanied by:
- the statement specified in 37 C.F.R. § 1.97(e):
 - Each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or
 - That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement.
 - the fee set forth in 37 C.F.R. § 1.17(p) (see "Fees" below).

In re PATRICK A. COSTELLO
Application No. 10/684,282
Copies Of The References

- Enclosed herewith are copies of the references listed on the enclosed Form PTO-1449. A concise explanation of the relevance, as it is presently understood by the individual designated in § 1.56(c) most knowledgeable about the content of the information, of each patent, publication, or other information listed that is not in the English language is included either separate from applicant's specification or incorporated therein. Furthermore, a copy of the translation of a non-English language reference is included herewith if a written English-language translation of a non-English-language document, or portion thereof, is within the possession, custody, or control of, or is readily available to any individual designated in § 1.56(c).
- A copy of a foreign search report is enclosed herewith.
- Copies of one or more cited pending US Applications are not provided as the application(s) are in the Image File Wrapper (IFW) system. As such, copies are not required per *Waiver of the Copy Requirement in 37 CFR 1.98 for Cited Pending US Patent Application*, 1287 Off. Gaz. Pt. Office 163 (October 19, 2004).
- Per 37 C.F.R. § 1.98(d), copies of the references listed on the enclosed Form PTO-1449 are not provided as they were previously submitted to, or cited by, the Office in an earlier application, and (1) the earlier application is properly identified in the information disclosure statement and is relied on for an earlier effective filing date under 35 U.S.C. 120; and (2) the information disclosure statement submitted in the earlier application complies with paragraphs (a) through (c) of this 37 C.F.R. § 198. The details of the parent application(s) relied upon for an earlier filing date under 35 U.S.C. § 120 in which copies of the references were previously furnished are set out below:

U.S. APPLICATIONS		Status (<i>check one</i>)		
U.S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
1.				
2.				
3.				

In re PATRICK A. COSTELLO
Application No. 10/684,282

Fees



No fee is owed by the applicant(s).

- The IDS Fee of \$180.00 was already paid today with the submission of an electronic Information Disclosure Statement (eIDS) Filed today with ePAVE, so NO additional fee is believed due. A copy of the eIDS fee transmittal is included herewith.
- The IDS Fee of \$180.00 is due. (Fee code 126.)**
 - Please charge my credit card for the fees due (form PTO-2038 included herewith).
 - Charge Deposit Account No. 501430 in the amount of \$180.

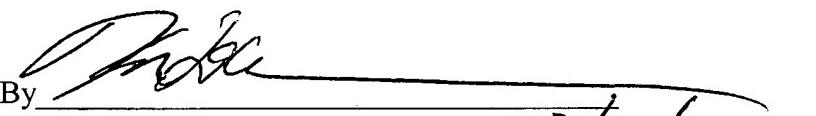
Authorization To Charge Additional Fees and Credit any Overpayment

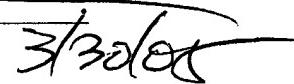
- If any additional fees are owed in connection with this communication, please charge Deposit Account No. 501430.
- Credit Account No. 501430 for any overpayment in connection with this communication.

Date: March 30, 2005 Respectfully submitted,

The Law Office of Kirk D. Williams

By


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3/30/05



FORM PTO-1449
MODIFIED

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number	10/684,282
Filing Date	October 10, 2003
First Named Inventor	Patrick Costello
Group Art Unit	2664
Examiner Name	Wellington Chin

Sheet 1 of 1 Attorney Docket No. 21863

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	Cite No.	Foreign Document Identification	PUBL. DATE (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	TRANSLATION	
					YES	NO
	AA	EP 1052814 A	11-15-2000	Nortel Networks		X
	AB	WO 03/085909	10-16-2003	Cisco Technology		X

PENDING U.S. PATENT APPLICATIONS

EXAMINER'S INITIALS	Cite No.	Application Number	Filing Date (MM-DD-YYYY)	Name of Applicant
	AC	10/109,785	03-30-2002	Bonomi et al.
	AD	10/339,032	01-09-2003	Earl T. Cohen

EXAMINER'S INITIALS	Cite No.	OTHER DOCUMENTS
	AE	NICK MCKEOWN, <i>The iSlip Scheduling Algorithm for Input-Queued Switches</i> , IEEE/ACM TRANSACTIONS ON NETWORKING, Vol. 7, No. 2, April 1999, pp. 188-201.
	AF	MCKEOWN ET AL., <i>Tiny Tera: A Packet Switch Core</i> , IEEE MICRO, Vol. 17, Issue 1, Jan.-Feb. 1997, pp. 26-33.
	AG	NICK MCKEOWN AND THOMAS E. ANDERSON, <i>A Quantitative Comparison of Scheduling Algorithms for Input-Queued Switches</i> , COMPUTER NETWORKS AND ISDN SYSTEMS, Vol. 30, No. 24, pp 2309-2326, December 1998.
	AH	PANKAJ GUPTA AND NICK MCKEOWN, <i>Designing and Implementing a Fast Crossbar Scheduler</i> , IEEE MICRO, Vol. 19, Issue 1, Jan.-Feb. 1999, pp. 20-28.
	AI	WENZHE CUI ET AL., "A threshold based scheduling algorithm for input queue switch," IEEE, 2001, pp. 207-212.
	AJ	CHAO H J ET AL., "Centralized contention resolution schemes for a large-capacity optical ATM switch," ATM WORKSHOP PROCEEDINGS, 1998 IEEE, Fairfax, VA, USA pp. 11-16, May, 26, 1998.

Examiner Signature	Date Considered
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